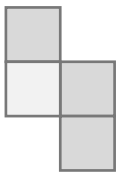
EM 9C Assessment Test

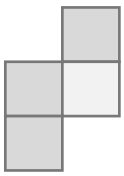
Test 2

Answers

1. $15\ cm^2$
2. (a) £ 0.76 (b) 52% (c) 0.755, $\frac{4}{5}$, 85%
3. (a) $x = -9$ (b) $x = 5$
4. (a) 8 (b) 6.4
5. (a) Line A, y-intercept, gradient = 2
   Line B, y-intercept, gradient = $\frac{1}{2}$
   Line C, y-intercept, gradient = -1
   (b) A is $y = 2x + 2$
6. £77.70
7. (a) Scale, factor of 2 at point (3,1) (b) Rotate 180° at point (1,-1)
   (c) Translate Left 6, Down 5. (d) Rotate 90° clockwise at point (0, -2)
8. 62.5%
9. $3(x + 7)°$ = 68° (Largest angle)
10. (a) 46 (b) 1996
11. $120\ cm$
12. £3622.50
13. (a)



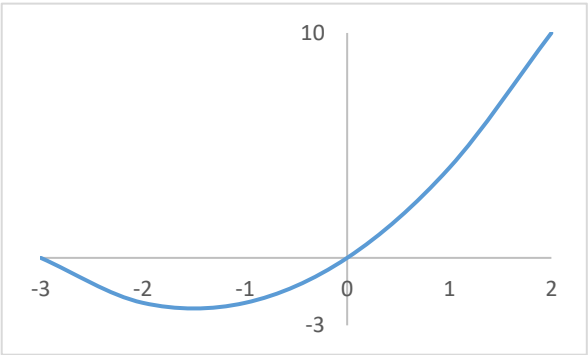
(b)

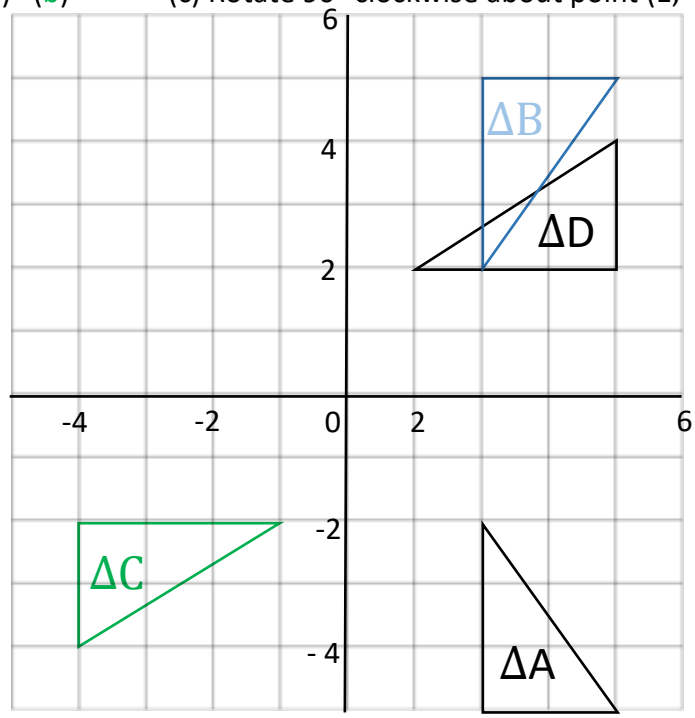


14. *Vertical line through AB midpoint.*
15. (a)

x		-3	-2	-1	0	1	2
x^2		**9**	**4**	**1**	**0**	**1**	4
$3x$		**-9**	**-6**	**-3**	**0**	**3**	6
y		**0**	**-2**	**-2**	**0**	**4**	10

(b)



(c) *approx.* 1.5

16. 0.44 km
17. 226 seconds
18. £180
19. (a) 46 (b) 51 (c) 44
20. (a) (b) (c) Rotate 90° clockwise about point (1, -1)